Reducing OR Delays Through Difficult IV Access Toolkit

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Introduction & Background

DIVA is an independent predictor of delay in care
OR delays are costly – time, resources, money, satisfaction
DIVA by medical history: obesity, IV drug abuse, end-stage renal disease, and sickle cell disease, and more!
Wide-Spread Problem
Typical time: 2.5 - 12.6 mins, DIVA: >30 mins. 5% of patients taking 2 hours or more
Annual DIVA delays = 1 day 5 hours and 52 minutes

Purpose & Aims

Purpose:
- DIVA patient ‘tool kit’ --> Changes in outcomes
- Determine the effect of a 12-week implementation of a DIVA patient tool kit on nursing satisfaction
- Determine effect of a 12-week implementation of DIVA patient tool kit on operating room delays

Methods

Pre-test/Post-test Design
Tertiary Care Academic Teaching Institution
Pre-operative unit, Pre-operative Nurses
20 Question Likert scale & delay counts via electronic charting
PERC & IRB

Toolkit
- DIVA patient identification tool
- US use on DIVA patients
- Proctored US/GIVA

Discussion & Conclusion

Discussion
Results not favorable despite strong literature support

Limitations
Design - no control over potential confounders for MSQ
Lack of US training for all RNS

Conclusion
Although no improvement with this project, perhaps a different timeline for DIVA identification or expanding ultrasound training could be successful

Aim 1
- 7.4% decrease in nursing satisfaction
- Not statistically significant
- p-value = 0.207

Aim 2
- Increase in delay count post
- No statistical difference in delay mean
- No statistical difference in delay median
- p-value = 0.456

References

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